

CLAIMS

1 An optical holographic device for reading out a data page recorded in a holographic
medium (106), said device comprising means (104, 105) for forming an imaged data page
5 from said data page, said imaged data page comprising imaged data bits (a, b, c, d) having a
first size (s_1) in a direction (D), means for detecting (114) said imaged data page, said
detecting means comprising detector elements having a second size (s_2) in said direction, said
second size being larger than said first size, and displacement means (200) for displacing the
imaged data page in said direction with respect to the detecting means so as to scan said
10 imaged data page.

2 An optical holographic device as claimed in claim 1, wherein the second size is at
least two times larger than the first size.

3 An optical holographic device as claimed in claim 1, wherein said displacement
means comprise an electrowetting based deflection device (200) or a liquid crystal based
15 deflection device.

4 An optical holographic device as claimed in claim 1, wherein the detector elements
(414a, 414b) are disposed in staggered rows, the means for forming an imaged data page
being arranged in such a way that an imaged data bit impinges on at least two detector
elements.

20 5 A method for reading out a data page recorded in a holographic medium, said method
comprising a step of forming an imaged data page from said data page on detecting means,
said imaged data page comprising imaged data bits having a first size in a direction, at least
one step of displacing the imaged data page with respect to the detecting means, and, after
each displacing step, a step of measuring the output of at least one detector element having a
25 second size in said direction, said second size being larger than said first size, the method
further comprising a step of retrieving the data page from said measurements.

6 A method for reading out a data page as claimed in claim 5, said method further
comprising, after each step of measuring, a step of subtracting the outputs of two detector
elements.

30 7 A method for reading out a data page as claimed in claim 5, wherein said second size
is X times larger than said first size, the method comprising (X-1) displacing steps.

8 A computer program comprising a set of instructions which, when loaded into a
processor or a computer, causes the processor or the computer to carry out the method as
claimed in Claim 5.